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In re Application of

Application Number  
**09-062142**Filed  
**4-17-98**

Art Unit

Examiner

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1.  I hereby request access under 37 CFR 1.14(e)(2) to the application file record of the above-identified ABANDONED Application, which is not within the file jacket of a pending Continued Prosecution Application (CPA) (37 CFR 1.53(d)) and is: (CHECK ONE)

 (A) referred to in:

United States Patent Application Publication No. 6153420, page \_\_\_\_\_, line \_\_\_\_\_.  
 United States Patent Number \_\_\_\_\_, column \_\_\_\_\_, line \_\_\_\_\_, or  
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US006153420A

# United States Patent [19]

Sheppard

[11] Patent Number: 6,153,420  
[45] Date of Patent: Nov. 28, 2000

[54] SERINE PROTEASE POLYPEPTIDES AND MATERIALS AND METHODS FOR MAKING THEM

[75] Inventor: Paul O. Sheppard, Redmond, Wash.

[73] Assignee: ZymoGenetics, Inc., Seattle, Wash.

[21] Appl. No.: 09/072,384

[22] Filed: May 4, 1998

## Related U.S. Application Data

[63] Continuation-in-part of application No. 09/062,142, Apr. 17, 1998, abandoned.

[60] Provisional application No. 60/044,185, Apr. 24, 1997.

[51] Int. Cl.<sup>7</sup> C12N 9/64; C12N 15/57; C12N 15/62; C12N 15/70; C12N 15/79

[52] U.S. Cl. 435/226; 435/69.1; 435/69.7; 435/252.3; 435/25.33; 435/320.1; 435/417; 536/23.2; 536/23.4

[58] Field of Search 435/220, 69.1, 435/69.7, 252.3, 252.33, 320.1, 417; 536/23.2, 23.4

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[57]

## ABSTRACT

A novel serine protease is disclosed. The protease comprises a sequence of amino acid residues that is at least 95% identical to SEQ ID NO:2 from Ile, residue 111, through Asn, residue 373. Also disclosed are polynucleotide molecules encoding the protease, expression vectors containing the polynucleotides, cultured cells containing the expression vectors, and methods of making the protease. The protease can be used, inter alia, within industrial processes to degrade unwanted proteins or alter the characteristics of protein-containing compositions.